

Table B-11. Eighty-kilometer population dose resulting from atmospheric releases from operation of L-Reactor with seepage basin in first year (In person-rem per year)

Pathway	Total body	GI-tract	Bone	Liver	Kidney	Thyroid	Lung	Skin
Plume immersion	1.60	1.60	1.60	1.60	1.60	1.60	1.60	2.99
Ground plane	2.01×10^{-5}	2.45×10^{-5}						
Vegetation ingestion	5.20×10^{-1}	5.20×10^{-1}	7.83×10^{-1}	5.19×10^{-1}	5.19×10^{-1}	7.68×10^{-1}	5.18×10^{-1}	5.18×10^{-1}
Meat ingestion	1.20×10^{-1}	1.20×10^{-1}	2.66×10^{-1}	1.20×10^{-1}	1.20×10^{-1}	1.24×10^{-1}	1.20×10^{-1}	1.20×10^{-1}
Milk ingestion	1.41×10^{-1}	1.41×10^{-1}	2.26×10^{-1}	1.41×10^{-1}	1.41×10^{-1}	1.66×10^{-1}	1.41×10^{-1}	1.41×10^{-1}
Inhalation	6.26×10^{-1}	6.26×10^{-1}	2.24×10^{-3}	6.26×10^{-1}	6.26×10^{-1}	6.30×10^{-1}	6.26×10^{-1}	6.26×10^{-1}
Total	3.00	3.00	2.88	3.00	3.00	3.28	3.00	4.40

Table B-12. Eighty-kilometer population dose resulting from atmospheric releases from operation of L-Reactor with seepage basin in tenth year (In person-rem per year)

Pathway	Total body	GI-tract	Bone	Liver	Kidney	Thyroid	Lung	Skin
Plume immersion	1.60	1.60	1.60	1.60	1.60	1.60	1.60	2.99
Ground plane	2.01×10^{-5}	2.45×10^{-5}						
Vegetation ingestion	3.94	3.94	7.83×10^{-1}	3.94	3.94	4.19	3.94	3.94
Meat ingestion	7.18×10^{-1}	7.18×10^{-1}	2.66×10^{-1}	7.18×10^{-1}	7.18×10^{-1}	7.23×10^{-1}	7.18×10^{-1}	7.18×10^{-1}
Milk ingestion	1.01	1.01	2.26×10^{-1}	1.01	1.01	1.04	1.01	1.01
Inhalation	6.26	6.26	2.24×10^{-3}	6.26	6.26	6.26	6.26	6.26
Total	1.35×10^1	1.35×10^1	2.88	1.35×10^1	1.35×10^1	1.38×10^1	1.35×10^1	1.49×10^1

Table B-13. Eighty-kilometer population dose resulting from atmospheric releases from operation of L-Reactor without seepage basin in first year (In person-rem per year)

Pathway	Total body	GI-tract	Bone	Liver	Kidney	Thyroid	Lung	Skin
Plume immersion	1.60	1.60	1.60	1.60	1.60	1.60	1.60	2.99
Ground plane	2.01×10^{-5}	2.45×10^{-5}						
Vegetation ingestion	4.95×10^{-1}	4.95×10^{-1}	7.83×10^{-1}	4.94×10^{-1}	4.94×10^{-1}	7.41×10^{-1}	4.93×10^{-1}	4.93×10^{-1}
Meat ingestion	1.15×10^{-1}	1.15×10^{-1}	2.66×10^{-1}	1.15×10^{-1}	1.15×10^{-1}	1.20×10^{-1}	1.15×10^{-1}	1.15×10^{-1}
Milk ingestion	1.35×10^{-1}	1.35×10^{-1}	2.26×10^{-1}	1.35×10^{-1}	1.35×10^{-1}	1.60×10^{-1}	1.35×10^{-1}	1.35×10^{-1}
Inhalation	5.85×10^{-1}	5.85×10^{-1}	2.24×10^{-3}	5.85×10^{-1}	5.85×10^{-1}	5.88×10^{-1}	5.85×10^{-1}	5.85×10^{-1}
Total	2.93	2.93	2.88	2.93	2.93	3.20	2.93	4.32

Table B-14. Eighty-kilometer population dose resulting from atmospheric releases from operation of L-Reactor without seepage basin in tenth year (In person-rem per year)

Pathway	Total body	GI-tract	Bone	Liver	Kidney	Thyroid	Lung	Skin
Plume immersion	1.60	1.60	1.60	1.60	1.60	1.60	1.60	2.99
Ground plane	2.01×10^{-5}	2.45×10^{-5}						
Vegetation ingestion	3.69	3.69	7.83×10^{-1}	3.69	3.69	3.94	3.69	3.69
Meat ingestion	6.74×10^{-1}	6.74×10^{-1}	2.66×10^{-1}	6.74×10^{-1}	6.74×10^{-1}	6.78×10^{-1}	6.74×10^{-1}	6.74×10^{-1}
Milk ingestion	9.49×10^{-1}	9.49×10^{-1}	2.26×10^{-1}	9.49×10^{-1}	9.49×10^{-1}	9.73×10^{-1}	9.49×10^{-1}	9.49×10^{-1}
Inhalation	5.85	5.85	2.24×10^{-3}	5.85	5.85	5.85	5.85	5.85
Total	1.28×10^1	1.28×10^1	2.88	1.28×10^1	1.28×10^1	1.30×10^1	1.28×10^1	1.41×10^1